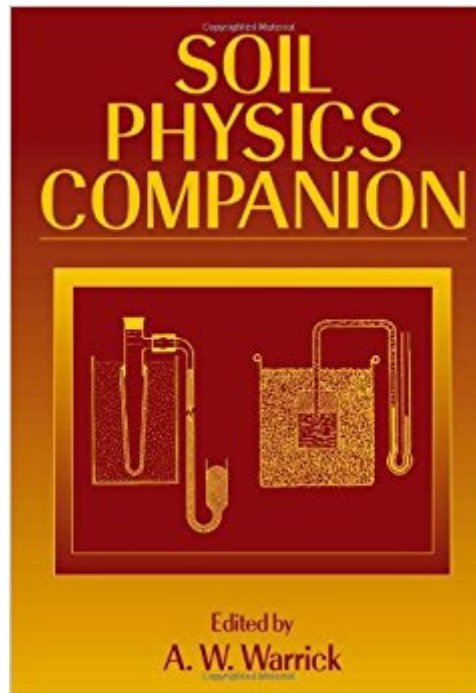




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# Soil Physics Companion



## Synopsis

An authoritative reference on soil physics, *Soil Physics Companion* is lavishly illustrated with graphs, charts, line drawings, and equations. The book provides a valuable source of material and reference for most contemporary topics of soil physics and the vadose zone - arguably the most comprehensive volume available. In addition to being a reliable reference, it is valuable as an advanced text from which topics of interest can be selected by the teacher and student. Topics include:

- Static and dynamic aspects of soils
- Transport processes and soil water measurements
- Movement of soil water in the context of overall water balance and its key role in the hydrologic cycle
- Energy balance and thermal regime
- Soil-plant-atmospheric interface
- Solute transport and soil-gas movement
- Spatial variability

Building on the work begun in the bestselling *Handbook of Soil Science*, this reference takes soil physics one step further. Convenient and easy-to-use, it provides in-depth information at your fingertips. When you need easily accessible, readily available facts and theories, you need the *Soil Physics Companion*.

## Book Information

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## Customer Reviews

"*Soil Physics Companion* is an expanded version of the soil physics chapter in the *Handbook of Soil Science*, ed. by Malcom E. Summer (CH, Jan' 00). Warrick has expanded the original format, which addresses several major topics of contemporary soil physics. He has used the same chapter format, and the same authors write on their respective topics. Additions to each chapter include boxed examples with problems, questions, citations, and additional descriptions, emphasizing a primary chapter concept. Along with general principles and methodology presented in the *Handbook of Soil*

Science, the Companion is extensively illustrated with figures, tables, illustrations of instruments for measuring soil water content and potential, and descriptions of new devices useful for measuring soil physical properties. The writing style is consistent from chapter to chapter regardless of author. Warrick has created a supplement for those interested only in soil physics without having to acquire the larger handbook. Readers include soil scientists, hydrologists, and agronomists with strong backgrounds in soils. Upper-division undergraduates through professionals involved in soil research." -S.G. Shetron, emeritus, Michigan Technological University, in CHOICE "Besides in-depth discussion of these important topics, the book contains interesting and stimulating worked-out examples, food-for-thought questions, and historical stories related to soil physics. The discussions of new devices for measuring soil properties are also useful. At the end of each chapter, a vast number of current references are provided. The book is extremely well organized. The editor and contributors of the chapters are leading scientists and recognized authorities on the topics. The book should be one of the best authoritative references on the soil physics." -R. Zhang, University of Wyoming, in the Journal of Environmental Quality" chapters flow easily from one to another the quality of the figures and format of the layout is of similar high quality for all chapters Overall, Soil Physics Companion is a valuable reference value the book as a reference for my graduate students and myself" -Jan W. Hopmans, University of California-Davis, in Soil Science, Vol. 167, No. 12, December 2002 Promo Copy

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